

FIG. 1

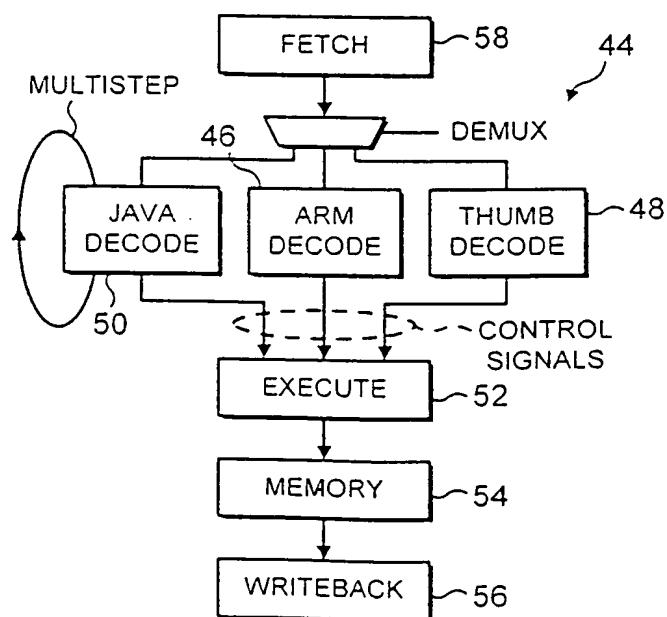


FIG. 2

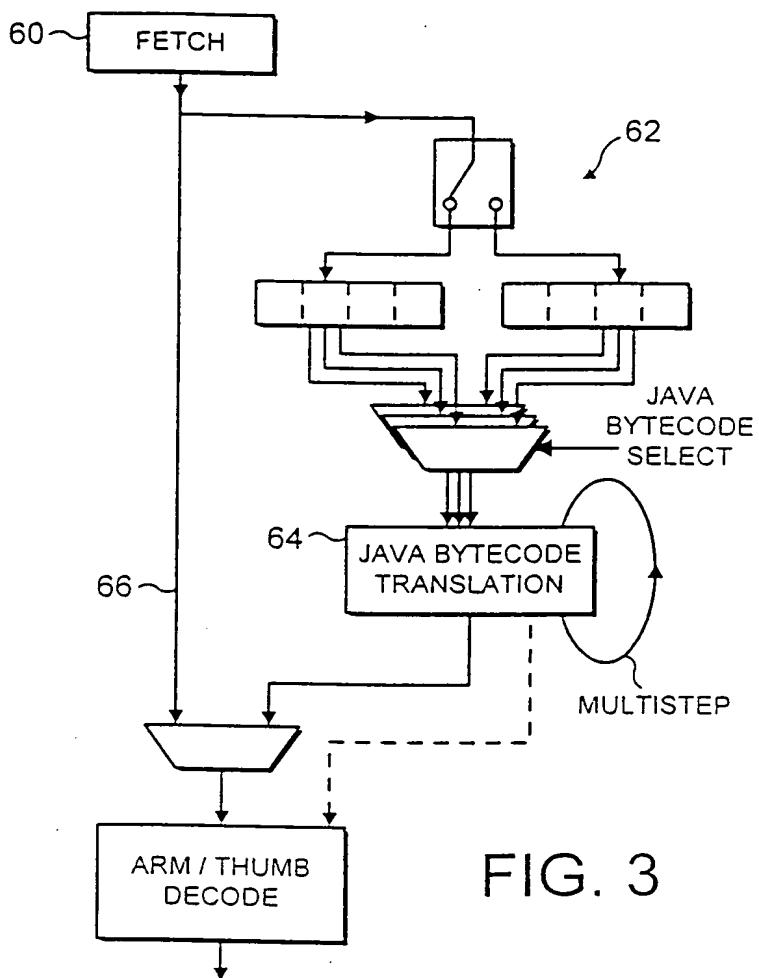


FIG. 3

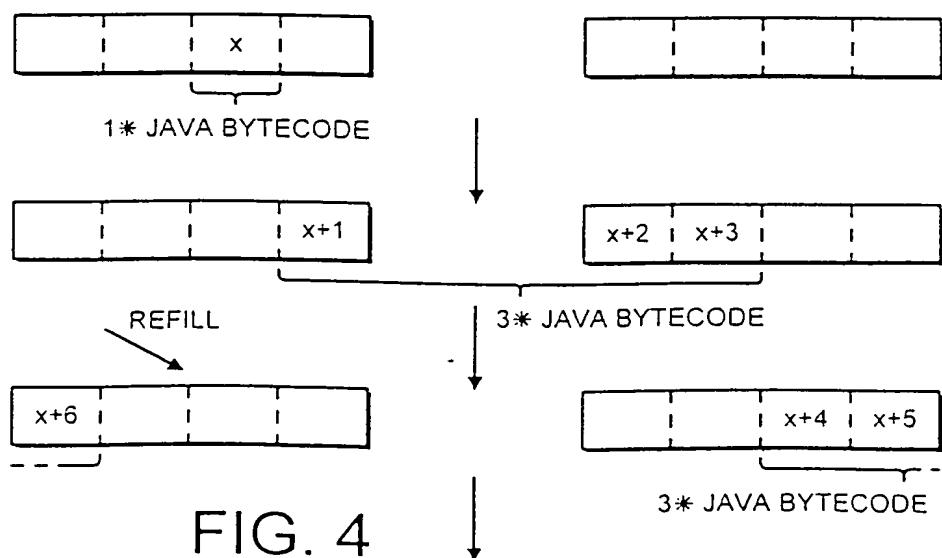


FIG. 4

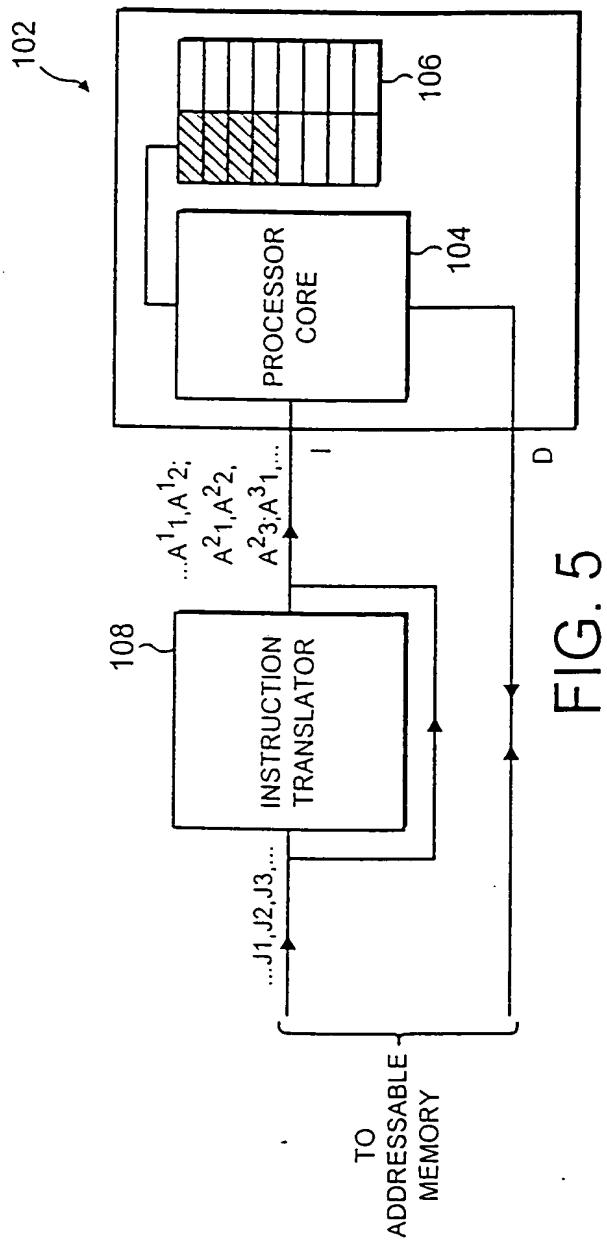
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BY
M. S. O. A. B. I. / B. B. I.

FIG. 5

JAVA INSTRUCTION		iadd (RF=2,RF>0)	iadd (RF=2,RF>1)	iadd (RF=2,RF>1)	iadd (SA=-1)
ARM INSTRUCTION(S)		1 LDR R0[RStack,#-4]! (POP)	LDR R3[RStack,#-4]! (POP)	LDR R3[RStack,#-4]! (POP)	ADD R3, R3, R0
STATE		00000	00100	01000	00111
R0	E		SOA TOS	SOA TOS	E
R1	E	E		E	E
R2	E	E	E		E
R3	E	E	E	SOB TOS-1	(SOA+SOB) TOS
JAVA INSTRUCTION		Load ¹ (RF=0,RE>2)		Load ² (RF=0,RE>2)	
ARM INSTRUCTIONS		1 LDR R1,[Rvars,#4] LDR R0,[Rvars,#0]	STR R3[RStack],#-4 (PUSH)	LDR R3,[Rvars,#4] LDR R2,[Rvars,#0]	(RF=0,RE=2)
STATE		00000	00100	01000	10011
R0	E	SOC TOS-1	SOC TOS-1	SOC TOS-1	SOC TOS-3
R1	E	SOD TOS	SOD TOS	SOD TOS	SOD TOS-2
R2	E	E	E	E	SOE TOS-1
R3	(SOA+SOB) TOS	(SOA+SOB) TOS	E	E	SOF TOS

FIG. 6

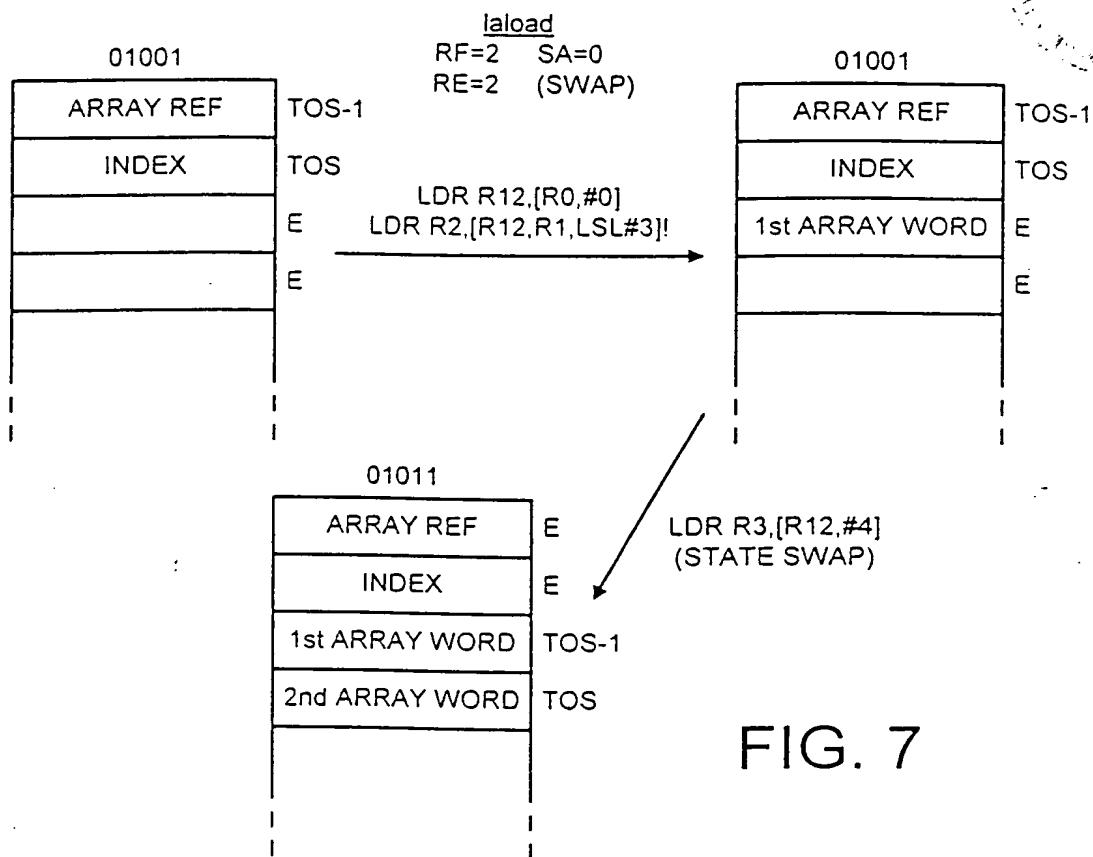


FIG. 7

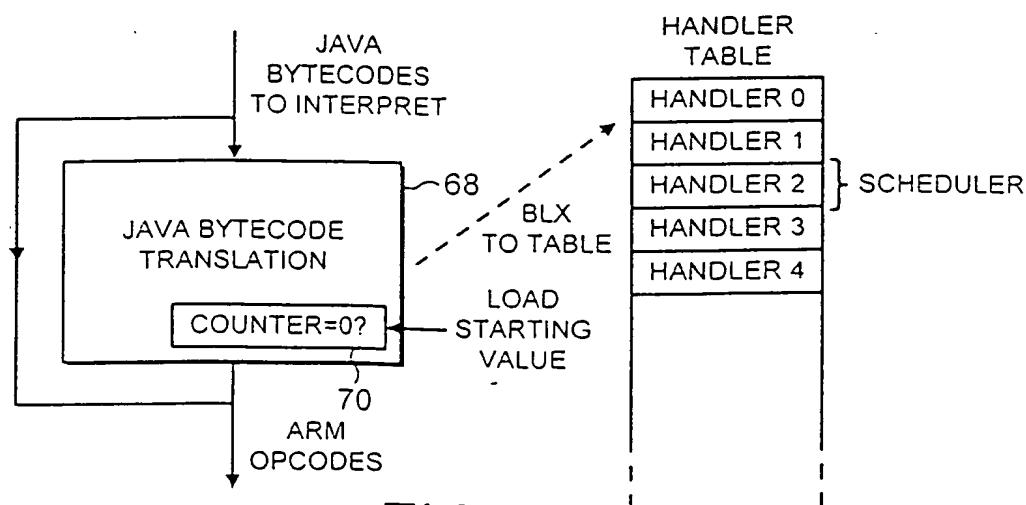
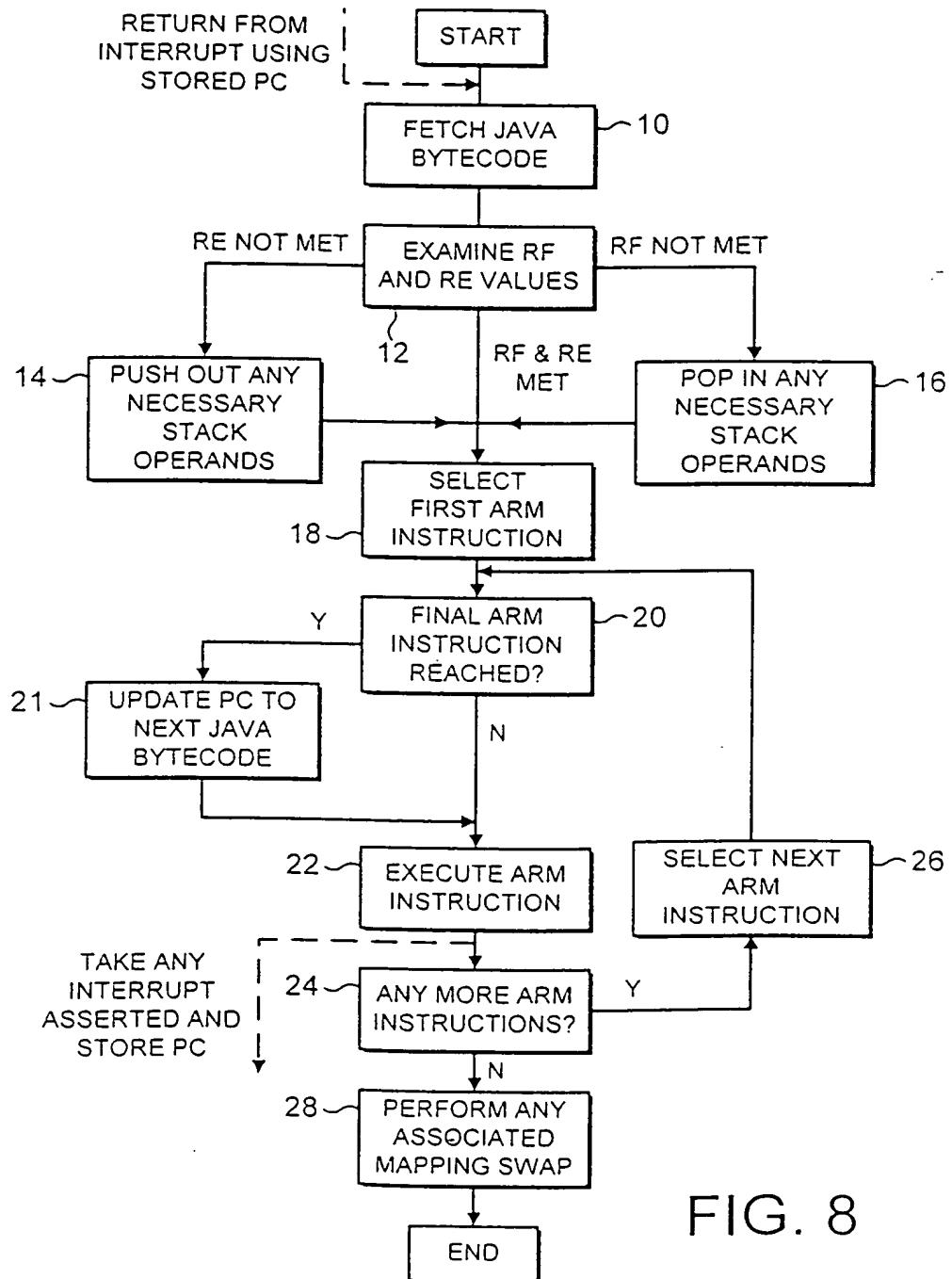


FIG. 9



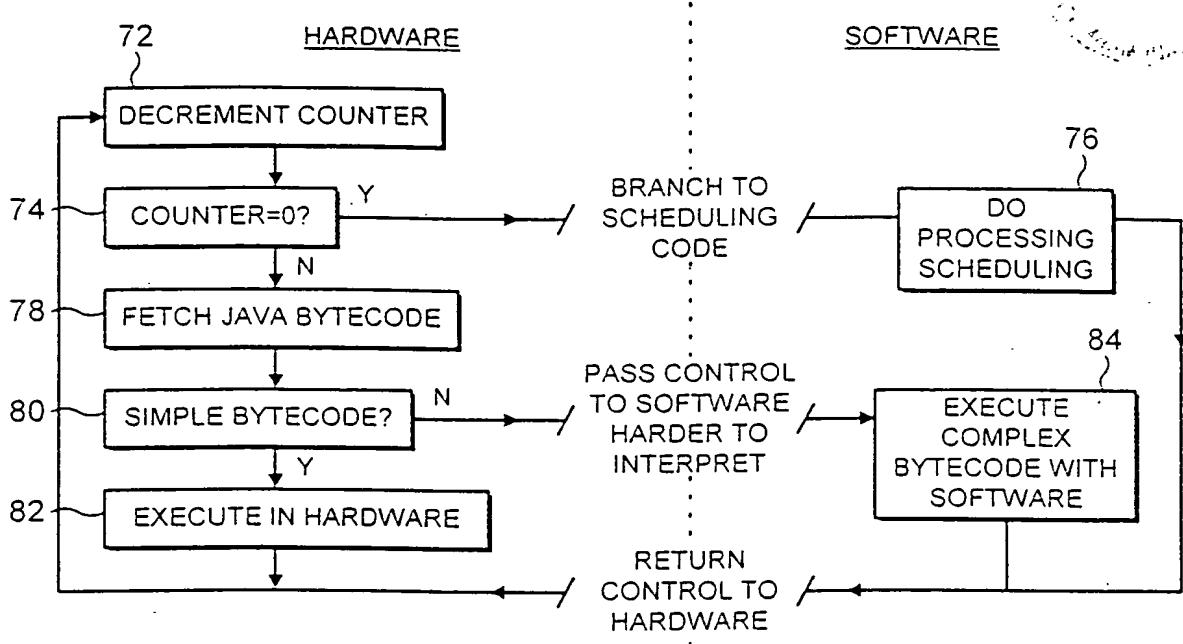


FIG. 10

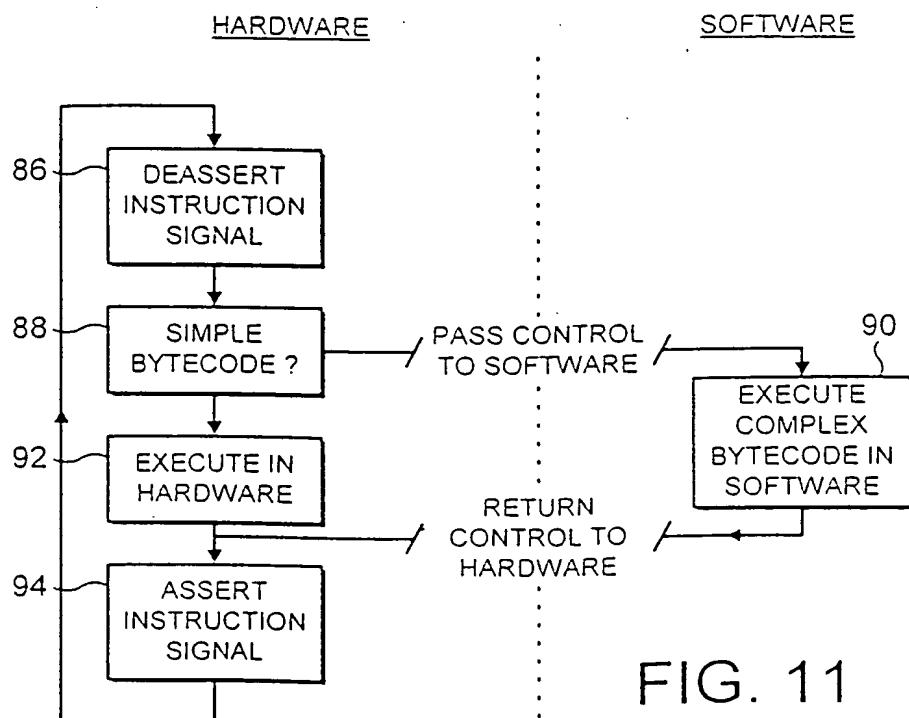


FIG. 11

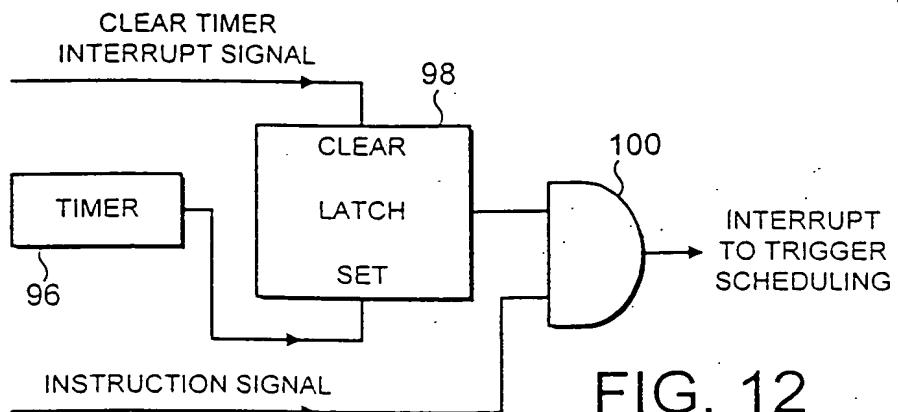


FIG. 12

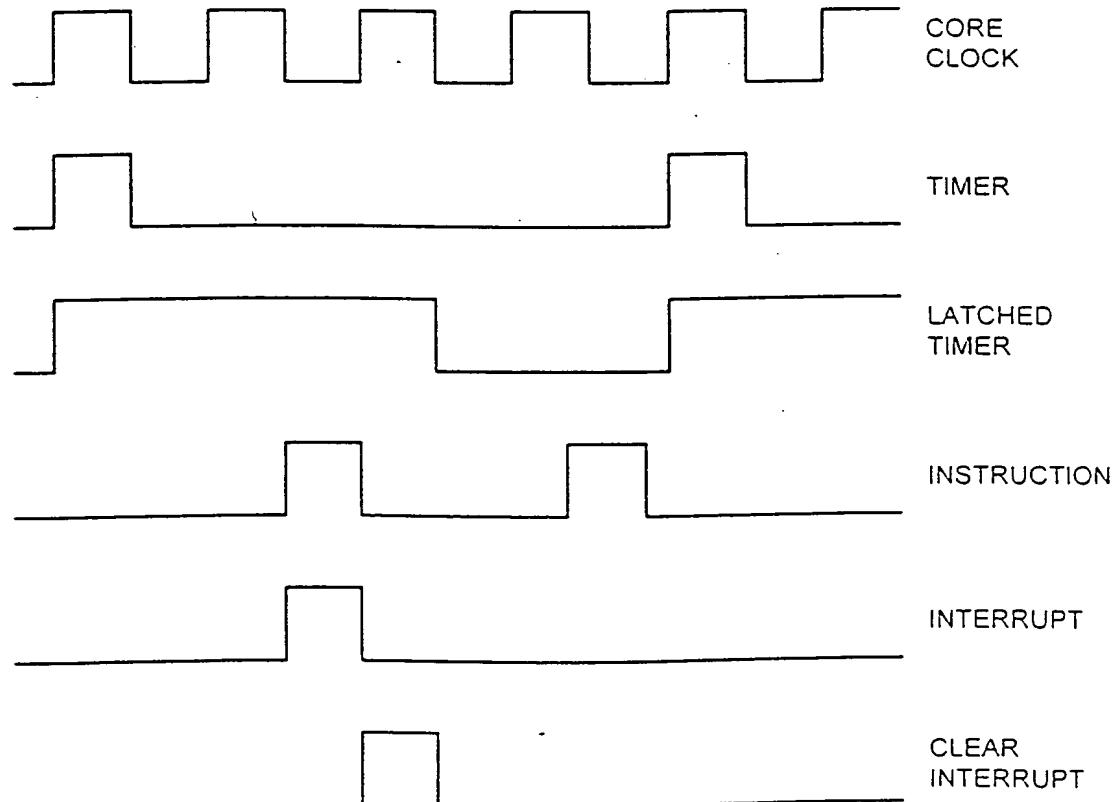


FIG. 13